CLAIM AMENDMENTS

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application (material to be inserted in amended claims is in underline, and material to be deleted is in strikeout).

- 1. (original) A woodworking machine comprising:
- a support frame;
- a motor supported by the frame;
- a cutting tool supported by the frame and moveable by the motor;
- a detection system adapted to detect contact between a person and the cutting tool:

a brake component adapted to engage and stop movement of the cutting tool, where the brake component has a ready position spaced apart from the cutting tool; and

an actuator having stored energy sufficient to move the brake component from the ready position into engagement with the cutting tool within approximately 3 milliseconds or less after contact between a person and the cutting tool is detected.

- 2. (cancelled without prejudice) The machine of claim 1, where the cutting tool has one or more teeth, and where the brake component is adapted to engage the teeth of the cutting tool.
- 3. (original) The machine of claim 1, where the actuator includes a spring adapted to move the brake component into engagement with the cutting tool within approximately 3 milliseconds or less.

Page 13 - FIRST AMENDMENT Serial No. 09/929,227 4. (original) The machine of claim 3, further comprising a housing removably coupled to the frame, where the spring and the brake component are mounted within

the housing.

5. (cancelled without prejudice) The machine of claim 3, where the cutting tool

has one or more teeth, and where the spring is adapted to move the brake component

into engagement with the teeth of the cutting tool within approximately 3 milliseconds or

less.

6. (withdrawn) The machine of claim 1, where the spacing between the

brake component and the cutting tool is at least 1/8-inch when the brake component is

in the ready position.

7. (withdrawn) The machine of claim 1, where the spacing between the

brake component and the cutting tool is at least 1/4-inch when the brake component is

in the ready position.

8. (cancelled without prejudice) A woodworking machine comprising:

a support structure;

a motor supported by the support structure;

a blade supported by the support structure and moveable by the motor;

a detection system adapted to detect contact between a person and the blade;

a brake component adapted to engage and stop movement of the blade after

such contact is detected by the detection system, where the brake component has a

ready position spaced apart from the blade; and

an actuator adapted to move the brake from the ready position into contact with

the blade at a high acceleration when the detection system detects contact between the

person and the blade.

9. (currently amended) The machine of claim 81, where the actuator is

adapted to move the brake at an acceleration of over 500 ft/s2 when the detection

system detects contact between the person and the blade.

10. (currently amended) The machine of claim 81, where the actuator is

adapted to move the brake at an acceleration of over 2000 ft/s2 when the detection

system detects contact between the person and the blade.

11. (currently amended) The machine of claim 89, where the actuator includes

one or more springs adapted to move the brake into contact with the blade.

Page 15 -FIRST AMENDMENT Serial No. 09/929,227 12. (original) The machine of claim 11, where the one or more springs are adapted to apply at least 50 lbs. of force to move the brake into contact with the blade.

13. (cancelled without prejudice) A woodworking machine, comprising:

a support frame assembly;

a blade coupled to the support frame assembly and adapted to cut workpieces;

a motor coupled to the support frame assembly and adapted to drive the blade;

a detection system adapted to detect contact between a person and the blade;

and

a reaction system coupled to the support frame assembly and adapted to stop movement of the blade upon detection of contact between a person and the blade by

the detection system, where the reaction system includes:

a brake component having a first region pivotally coupled to the support frame assembly and a second region selectively movable into contact with the blade from a cocked position spaced-apart from the blade,

a spring configured to urge the second region of the brake

component into contact with the blade from the cocked position, and

a restraining mechanism adapted to maintain the second region of

the brake component in the cocked position against the urging of the

spring until detection of contact between a person and the blade by the

detection system.

14. (cancelled without prejudice) The machine of claim 13, where the spring is

compressed against the brake component when the second region is in the cocked

position.

15. (cancelled without prejudice) The machine of claim 14, where the spring is

adapted to apply at least 50 lbs. of force against the brake component when the second

region is in the cocked position.

16. (cancelled without prejudice) The machine of claim 14, where the spring is

adapted to apply at least 100 lbs. of force against the brake component when the

second region is in the cocked position.

17. (cancelled without prejudice) The machine of claim 13, where the spring is

adapted to move the second region of the blade toward the blade at an acceleration of

at least 500 ft/s² after the detection system detects contact between a person and the

blade.

18. (cancelled without prejudice) The machine of claim 13, where the spring is

adapted to move the second region of the brake component into contact with the blade

within 3 milliseconds or less after the detection system detects contact between a

person and the blade.

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19. (original) A woodworking machine, comprising:

a cutting tool adapted to cut workpieces;

means for driving the cutting tool;

means for detecting contact between a person and the cutting tool;

a brake component spaced apart from the cutting tool; and

means for moving the brake component into contact with the cutting tool within 3 milliseconds or less after contact between a person and the cutting tool is detected.

20. (cancelled without prejudice) A woodworking machine, comprising:

a cutting tool adapted to cut workpieces;

means for driving the cutting tool;

means for detecting contact between a person and the cutting tool;

a brake component selectively movable into contact with the cutting tool from a ready position spaced apart from the cutting tool; and

means for moving the brake component into contact with the cutting tool at an acceleration of over 2,000 ft/s² after contact between a person and the cutting tool is detected.

21. (new) The machine of claim 1, wherein the cutting tool includes a circular blade having an outer perimeter, and further wherein the brake component is adapted to engage the outer perimeter of the circular blade.

22. (new) The machine of claim 21, wherein the machine is a table saw.

Page 18 - FIRST AMENDMENT Serial No. 09/929,227 23. (new) The machine of claim 21, wherein the brake component is adapted

to be pivoted into engagement with outer perimeter of the circular blade.

24. (new) The machine of claim 21, wherein the brake component is adapted

to be slid into engagement with outer perimeter of the circular blade.

25. (new) The machine of claim 21, wherein the brake component is adapted

to be rotated into engagement with outer perimeter of the circular blade.

26. (new) The machine of claim 21, wherein at least a portion of the brake

component is destroyed when the brake component engages and stops the circular

blade.

27. (new) The machine of claim 1, wherein the brake component is adapted

to be pivoted into engagement with cutting tool.

28. (new) The machine of claim 1, wherein the brake component is adapted

to be slid into engagement with the cutting tool.

29. (new) The machine of claim 1, wherein the brake component is adapted

to be rotated into engagement with the cutting tool.

Page 19 - FIRST AMENDMENT Serial No. 09/929,227 30. (new) The machine of claim 1, wherein at least a portion of the brake component is destroyed when the brake component engages and stops the cutting tool.